

METAL POLE STANDARD FOUNDATION SELECTION FORM

SIGNAL INVENTORY NO.: _____ DATE: _____

INTERSECTION OF: _____ AND _____

BORING LABEL: _____ COUNTY: _____

RESIDENT OR DIVISION ENGINEER: _____

CONTRACTOR NAME: _____

BORING INFORMATION:

SPT DEPTH	1 ft (0.3 m)	2.5 ft (0.8 m)	5 ft (1.5 m)	7.5 ft (2.3 m)	10 ft (3.0 m)	15 ft (4.6 m)	20 ft (6.1 m)	26 ft (7.9 m)
N-VALUE MIN = 0 MAX = 50								

$$N_{AVG} = \frac{(N@1' + N@2.5' + \dots + N@Deepest \text{ Boring Depth}^*)}{\text{Total Number of N-values}} = \underline{\hspace{2cm}}$$

$$Y = (N@1')^2 + (N@2.5')^2 + \dots + (N@Deepest \text{ Boring Depth}^*)^2 = \underline{\hspace{2cm}}$$

$$Z = (N@1' + N@2.5' + \dots + N@Deepest \text{ Boring Depth}^*) = \underline{\hspace{2cm}}$$

*Note: Do not include the N-value at the deepest boring depth if the boring is discontinued because one of the following occurs:

- A total of 100 blows have been applied in any 2 consecutive 6-in. (0.15-m) intervals.
- A total of 50 blows have been applied with < 3-in. (.08-m) penetration.

$$N_{STD \text{ DEV}} = \left[\frac{(\text{Total Number of N-values} \times Y) - Z^2}{(\text{Total Number of N-values}) \times (\text{Total Number of N-values} - 1)} \right]^{0.5} = \underline{\hspace{2cm}}$$

Design N-value equals lesser of the following two conditions:

$$N_{AVG} - (N_{STD \text{ DEV}} \times 0.45) \quad \text{OR} \quad \left(\frac{N@1' + N@2.5' + N@5' + N@7.5'}{4} \right) = \boxed{\hspace{2cm}}$$

IS **Design N-value** LESS THAN 4? Yes _____ No _____

If yes, standard drilled pier foundation from Foundation Selection Table on plans can not be used.

DESCRIPTION OF SOIL: _____

DRILLED PIER LENGTH (L): ft or m (circle) **From Foundation Selection Table on Plans**

DEPTH OF BORING: _____ ft or m (circle)

IS DRILLED PIER LENGTH, L, GREATER THAN DEPTH OF BORING? Yes _____ No _____

If yes, standard drilled pier foundation from Foundation Selection Table on plans can not be used.

CONTRACTOR REPRESENTATIVE SIGNATURE: _____

DIVISION REPRESENTATIVE SIGNATURE: _____